INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/008516

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01L29/739

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 452 228 B1 (HARA KUNIHIKO ET AL) 17 September 2002 (2002-09-17) column 16, line 40 - column 17, line 54; figures 19,20	1,2
X	US 5 866 931 A (ROSSEN REBECCA ET AL) 2 February 1999 (1999-02-02) column 6, line 16 - line 40; figure 6	1,2
X	US 5 753 942 A (SEOK KYUNG-WOOK) 19 May 1998 (1998-05-19) column 5, line 4 - line 27; figures 5a,5b	1,2
X	EP 1 093 168 A (SHINDENGEN ELECTRIC MFG COMPAN) 18 April 2001 (2001-04-18) paragraphs '0116! - '0120!, '0134!, '0135!; figures 25a,25b,31,32a,32b	3,4
	-/	

T later document published after the International filing date
or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&' document member of the same patent family Date of mailing of the international search report
1 3. 12. 2004
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate of the relevant passages.							
oalegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
X	US 6 271 562 B1 (GRAF HEIMO ET AL) 7 August 2001 (2001-08-07) column 6, line 41 - column 9, line 2; figure 1	5,6					
X	US 6 008 092 A (GOULD HERBERT J) 28 December 1999 (1999-12-28) column 3, line 28 - column 6, line 34; figures 1,2	5,6					
Х	US 5 451 531 A (TOMOMATSU YOSHIFUMI ET AL) 19 September 1995 (1995-09-19) column 10, line 59 - column 11, line 25; figure 5	5,6					

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/008516

				[[7372004/008516
Patent document dted in search report		Publication date	ı L	Patent family member(s)	Publication date
US 6452228	B1	17-09-2002	JP	11330464 A	30-11-1999
			DE	19900171 A1	. 08-07-1999
			JP	11251592 A	07-09-1999
			SE	519692 C2	2 01-04-2003
			SE	9900008 A	06-07-1999
			US	6165822 A	26-12-2000
			JP	2000200907 A	18-07-2000
US 5866931	A	02-02-1999	US	5410170 A	25-04-1995
US 5753942	Α	19-05-1998	KR	206555 B1	01-07-1999
			DE	19654692 A1	03-07-1997
			JP	9199727 A	31-07-1997
EP 1093168	Α	18-04-2001	JP	2001185725 A	06-07-2001
			EP	1093168 A2	
			US	6459128 B1	01-10-2002
US 6271562	B1	07-08-2001	DE	19808348 C1	
			EP	0939446 A1	
			JP	3124524 B2	
			JP	11289091 A	19-10-1999
			TW	434906 B	16-05-2001
US 6008092	Α	28-12-1999	DE	19704996 A	
			FR	2745952 A1	12-09-1997
			GB	2310082 A	,B 13-08-1997
			IT	MI970242 A1	
			JP	10027807 A	27-01-1998
			SG	54461 A1	
			TW	445547 B	11-07-2001
US 5451531	Α	19-09-1995	DE	69314368 DI	
			DE	69314368 T2	
			EP	0561267 A2	
			JP	2949001 B2	
			JP US	6013620 A 5321281 A	21-01-1994
			บอ	537 178 LA	14-06-1994